SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT 21865 Copley Dr., Diamond Bar, CA 91765-4182

MONITORING & ANALYSIS REPORT OF LABORATORY ANALYSIS

TO:	Jason Low, Ph.D. Assistant Deputy Executive Officer	LABORATORY NO:	1625920
	Science and Technology Advancement	REFERENCE NO:	GC6-121-111
SAM	PLE DESCRIPTION: 24 hr Sample	DATE SAMPLED:	09/15/16
	Canister # 54035	DATE RECEIVED:	09/16/16
		DATE ANALYZED:	09/21/16
SAM	PLE LOCATION:		
	Reseda Station 18328 Gault St.	ANALYZED BY:	Yang Song
	Los Angeles, CA 91335	REQUESTED BY:	Sumner Wilson

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Volatile Organic Compounds (VOC) by Gas Chromatography(GC) and Flame Ionization Detection (FID)

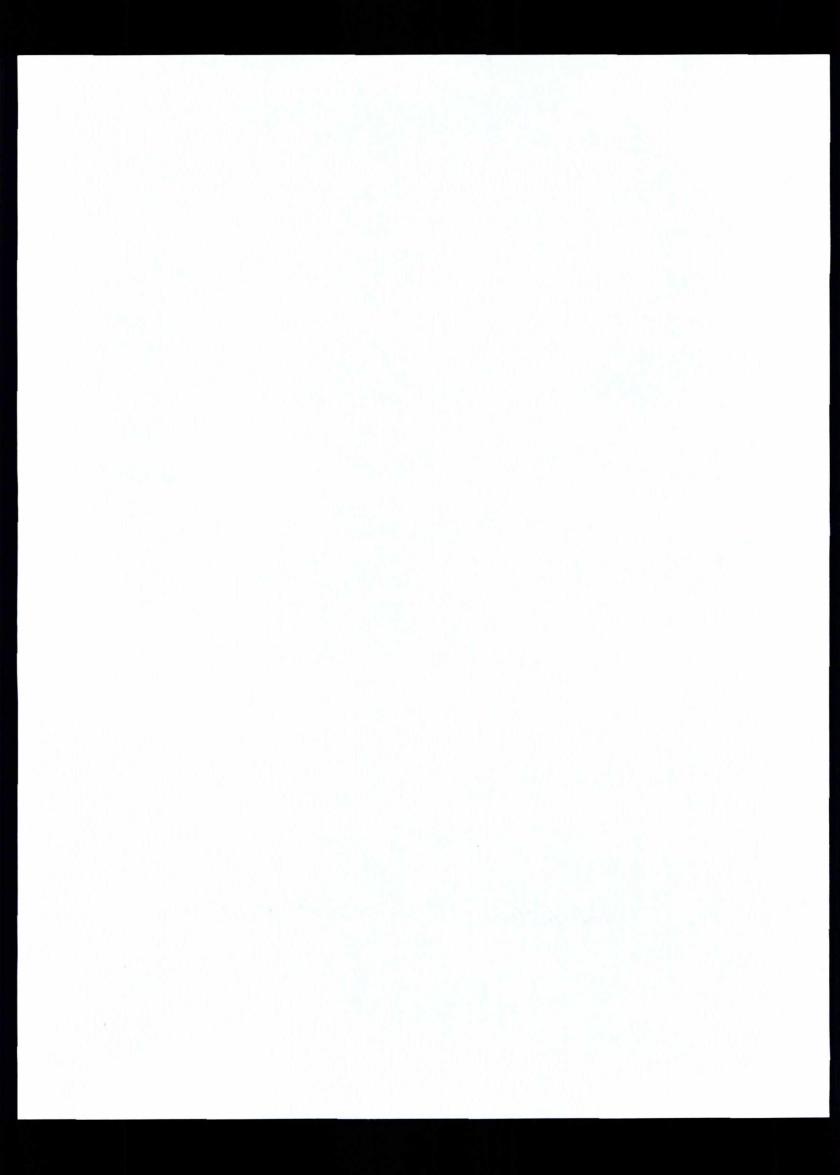
Note: See attached for speciated results.

Date Approved: 12/23/16 Approved By:

Solomon Teffera, Acting Sr. Manager

Laboratory Services Branch

(909) 396-2199



LAB NO: 1625920 Location: Reseda Station

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

Canister Sampling Location Reseda Station Ambient Air Total NMOC, ppbC 160 100-700 ppbC Compound Conc. (ppbv) Conc. (ppbv) ethylene 1.8 0.7-4.1 acetylene 1.1 propane propane 3.7 0.4-5.0 propylene 0.6 0.2-0.7 isobutane 1.0 0.2-0.9 n-butane 1.5 0.3-1.7 1-butene 0.1 0.1-0.3 trans-2-butene <0.1 0.1-0.3 cis-2-butene <0.1 0.1-0.3 trans-2-butene <0.1 0.1-0.3 trans-2-butene <0.1 0.1-0.3 trans-2-butene <0.1 0.1-0.3 trans-2-butene <0.1 0.1-0.3 trans-2-putene <0.1 0.1-0.6 cisoperne <0.1 0.1-0.6 isoperne <0.1 0.1-0.6 cis-2-pentene <0.1 0.1-0.6 cis-2-pentene <0.1 0.1-0.6	Sample Date	09/15/16	
Total NMOC, ppbC 160 100-700 ppbC Compound ethylene Conc. (ppbv) Conc. (ppbv) ethylene 1.8 0.7-4.1 acetylene 1.1	Canister	54035	
Compound Conc. (ppbv) Conc. (ppbv) ethylene 1.8 0.7-4.1 acetylene 1.1 propane propane 3.7 0.4-5.0 propylene 0.6 0.2-0.7 isobutane 1.0 0.2-0.9 n-butane 1.5 0.3-1.7 1-butene 0.1 0.1-0.3 trans-2-butene <0.1 0.1-0.3 cis-2-butene <0.1 0.1-0.3 isopentane 3.3 0.1-0.6 isopentane 0.5 0.1-0.6 isopenene <0.1 0.1-0.6 cis-2-pentene <0.1 0.1-0.6 cy-2-diimethylbutane 0.1 0.1-0.6 cy-3-diimethylbutane 0.2 0.1-0.1 cy-beane	Sampling Location	Reseda Station	Ambient Air
ethylene acetylene 1.8 0.7-4.1 acetylene 1.1 propane 3.7 0.4-5.0 propylene 3.7 0.4-5.0 propylene 0.6 0.6 0.2-0.7 isobutane 1.0 0.2-0.9 n-butane 1.5 0.3-1.7 1-butene 1.5 0.3-1.7 1-butene 0.1 0.1 0.1-0.3 trans-2-butene 0.1 cis-2-butene 0.1 cis-2-butene 0.1 isopentane 3.3 1-pentene 0.5 0.1 cisopentane 0.5 isopentane 0.5 0.1-0.6 isoprene 0.2 trans-2-pentene 0.1 0.2 trans-2-pentene 0.1 0.1 0.1 0.1 0.2 cyclohexane 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Total NMOC, ppbC	160	100-700 ppbC
acetylene propane 3.7 0.4-5.0 propylene 0.6 0.2-0.7 isobutane 1.0 0.2-0.9 n-butane 1.5 0.3-1.7 1-butene 1.5 1-butene 1.5 1-butene 0.1 trans-2-butene 0.1 isopentane 3.3 1-pentene 0.5 isoperene 0.2 trans-2-pentene 0.1 isoperene 0.2 trans-2-pentene 0.1 isoperene 0.2 trans-2-pentene 0.1 2,2-dimethylbutane 0.1 2,3-dimethylbutane 0.1 2-methylpentane 0.2 1-hexene 0.1 1-hexene 0.2 2,4-dimethylpentane 0.2 2,4-dimethylpentane 0.1 2-methylpentane 0.1 2-methylpentane 0.2 2,4-dimethylpentane 0.1 2-methylpentane 0.1 2-methylpentane 0.2 2-dimethylpentane 0.2 3-methylpentane 0.1 2-methylpentane 0.1 2-methylpentane 0.2 3-methylpentane 0.1 2-methylpentane 0.1 2-methylpentane 0.1 2-methylpentane 0.1 2-methylpentane 0.2 3-methylpentane 0.1 2-methylpentane 0.1			
propane 3.7 0.4-5.0 propylene 0.6 0.2-0.7 isobutane 1.0 0.2-0.9 n-butane 1.5 0.3-1.7 1-butene 0.1 0.1-0.3 trans-2-butene <0.1			0.7-4.1
Description	acetylene	1.1	
isobutane 1.0 0.2-0.9 n-butane 1.5 0.3-1.7 1-butene 0.1 0.1-0.3 trans-2-butene <0.1	propane		
n-butane 1.5 0.3-1.7 1-butene 0.1 0.1-0.3 trans-2-butene <0.1	propylene		
1-butene 0.1 0.1-0.3 trans-2-butene <0.1	isobutane	1.0	
trans-2-butene cis-2-butene isopentane 13.3 1-pentene n-pentane 10.5 10.1-0.6 isoprene 10.2 trans-2-pentene 10.2 trans-2-pentene 10.2 trans-2-pentene 10.2 trans-2-pentene 10.2 trans-2-pentene 10.1 2,2-dimethylbutane 10.1 2,3-dimethylbutane 10.1 2-methylpentane 10.2 1-hexene 10.2 1-hexene 10.2 2,4-dimethylpentane 10.2 2,4-dimethylpentane 10.1 2-methylpentane 10.1 2	n-butane	1.5	0.3-1.7
cis-2-butene <0.1	1-butene	0.1	0.1-0.3
isopentane 3.3 1-pentene <0.1	trans-2-butene	<0.1	
1-pentene <0.1	cis-2-butene	<0.1	
n-pentane 0.5 0.1-0.6 isoprene 0.2 0.1 trans-2-pentene <0.1	isopentane	3.3	
isoprene trans-2-pentene < 0.2 trans-2-pentene	1-pentene	<0.1	
trans-2-pentene cis-2-pentene 2,2-dimethylbutane cyclopentane 2,3-dimethylbutane 2,3-dimethylbutane 2-methylpentane 3-methylpentane 1-hexene 1-hexene 10.2 2,4-dimethylpentane 10.1 2-methylcyclopentane 2,4-dimethylpentane 10.1 2-methylpentane 10.1 2-methylpentane 10.1 2-methylpentane 10.1 2-methylpentane 10.1 2-methylpentane 10.1 2-methylhexane 10.1 2-methylhexane 10.1 2-methylhexane 10.1 2,3-dimethylpentane 10.2 3-methylhexane 10.1 2,2,4-trimethylpentane 10.3 1-0.2	n-pentane	0.5	0.1-0.6
cis-2-pentene <0.1	isoprene	0.2	
cis-2-pentene <0.1	trans-2-pentene	< 0.1	
cyclopentane <0.1	cis-2-pentene	< 0.1	
cyclopentane <0.1	2,2-dimethylbutane	< 0.1	
2,3-dimethylbutane 0.1 2-methylpentane 0.3 3-methylpentane 0.2 1-hexene <0.1	cyclopentane	< 0.1	
2-methylpentane 0.3 3-methylpentane 0.2 1-hexene <0.1	2,3-dimethylbutane	0.1	
3-methylpentane 0.2 1-hexene <0.1	The state of the s	0.3	
1-hexene <0.1		0.2	
methylcyclopentane 0.2 2,4-dimethylpentane 0.1 benzene 0.3 0.1-0.5 cyclohexane <0.1	1-hexene	< 0.1	< 0.1-0.1
2,4-dimethylpentane 0.1 benzene 0.3 0.1-0.5 cyclohexane <0.1	n-hexane	0.2	0.1-0.2
2,4-dimethylpentane 0.1 benzene 0.3 0.1-0.5 cyclohexane <0.1	methylcyclopentane	0.2	
benzene 0.3 0.1-0.5 cyclohexane <0.1		0.1	
cyclohexane <0.1			0.1-0.5
2-methylhexane 0.1 2,3-dimethylpentane 0.2 3-methylhexane 0.1 2,2,4-trimethylpentane 0.3 n-heptane 0.1 0.1-0.2	cyclohexane	< 0.1	
2,3-dimethylpentane 0.2 3-methylhexane 0.1 2,2,4-trimethylpentane 0.3 n-heptane 0.1 0.1-0.2	2-methylhexane	0.1	
3-methylhexane 0.1 2,2,4-trimethylpentane 0.3 n-heptane 0.1 0.1-0.2			
2,2,4-trimethylpentane 0.3 n-heptane 0.1 0.1-0.2	, , , , , , , , , , , , , , , , , , ,		
n-heptane 0.1 0.1-0.2			
		0.1	0.1-0.2
	methylcyclohexane		

LAB NO: 1625920 Location: Reseda Station

ANALYTICAL WORK PERFORMED, METHOD OF ANALYSIS AND RESULTS

Quantitation of Organic Compounds by Gas Chromatography(GC) and Flame Ionization Detection (FID)

Sample Date	09/15/16	
Canister	54035	
Sampling Location	Reseda Station	Ambient Air
Total NMOC, ppbC	160	100-700 ppbC
Compound	Conc. (ppbv)	Conc. (ppbv)
2,3,4-trimethylpentane	<0.1	
toluene	0.6	0.1-0.6
2-methylheptane	0.1	
3-methylheptane	0.1	
n-octane	0.2	<0.1-0.3
ethylbenzene	<0.1	0.1-0.2
m+p-xylenes	0.5	0.1-0.2
styrene	<0.1	<0.1-0.2
o-xylene	0.1	0.1-0.2
n-nonane	0.1	< 0.1-0.1
isopropylbenzene	<0.1	
n-propylbenzene	<0.1	
m-ethyltoluene	<0.1	
p-ethyltoluene	<0.1	
1,3,5-trimethylbenzene	<0.1	
o-ethyltoluene	<0.1	
1,2,4-trimethylbenzene	0.1	
n-decane	<0.1	<0.1-0.1
1,2,3-trimethylbenzene	<0.1	
m-diethylbenzene	<0.1	
p-diethylbenzene	<0.1	
n-undecane	<0.1	< 0.1
n-dodecane	<0.1	< 0.1

NMOC = Non-Methane Organic Compounds N.D. = Not Detected

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT SAMPLE ANALYSIS REQUEST

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	IN'
	LA
TA	DC



TO: SCAQMD LAB:	OTHER:				1 17
SOURCE NAME:	Southern California Gas Co. I.D. No.				
Source Address: 12801 Tan					
Mailing Address:		C	City:	Zip:	91326
Analysis Requested by:	Sumner W	ilson	Date:	9/16/16	j
Approved by: Jason I	Low Off	fice:		Budget #:	44716
REASON REQUESTED: Co Suspected Violation Ru					
Sample Collected by:	Qian Zhou	Date:	9/16/16	Time:	13:30
			PAMS analysis		
City/Location	Can#		/ time/ duration	Start vac	End Press
Reseda Station	54035	9/15/16 /	00:00 / 24 hours	<-30"	+12
Relinquished by	Received	by	Firm/Agency		Time
20 my Ca	AM~		SCAQMD Lab	allalla	17:34
Remarks: 1:6 scheduled samples from Reseda Station – 18328 Gault St, Los A GPS (34.199225, -118.532743). Right s	Angeles, CA 91335				